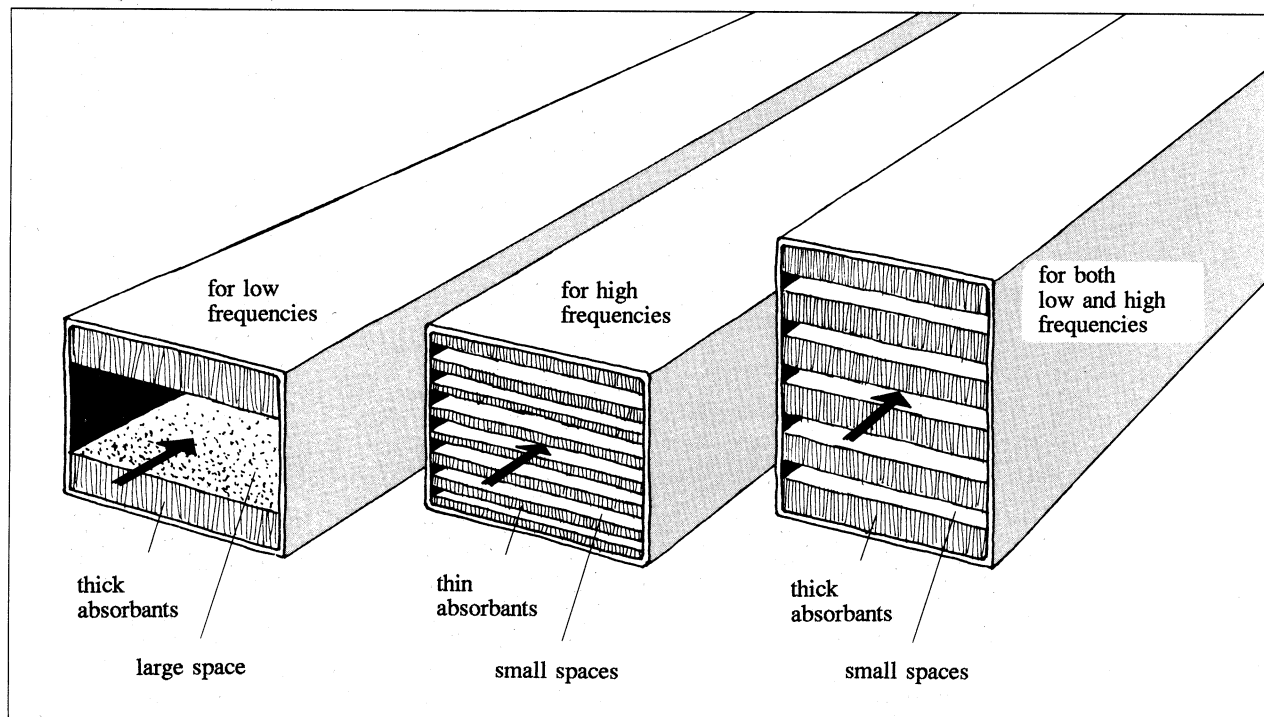


DISSIPATIVE MUFFLERS ARE EFFECTIVE OVER A BROAD RANGE OF FREQUENCIES

The simplest form of a dissipative muffler is a duct with sound-absorptive material on the walls. The thicker the material, the lower the frequency that can be absorbed. For higher frequencies, the space between the absorbing walls must be made smaller. A large duct must therefore be subdivided into many smaller ones.

Principle



Application to a gas turbine power station

Example

A common form of back-up power station is one driven by a jet aircraft engine. Noise reductions up to 70 dB are frequently required. If noise in a very wide frequency range is to be reduced, it is generally necessary to employ dissipative mufflers with thick and thin baffles of perforated sheet metal filled with mineral wool.

